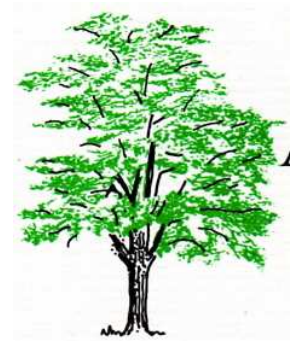




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**Tree Surveys
Mortgage Tree Surveys
Planning Applications
Planning Appeals
Public Enquiries
Expert Legal Witness**

Our Ref MC

15th January 2019

Dear Jason

ARBORICULTURAL SURVEY, LEE LANE, ROYSTON, BARNSELY

I refer to your request for an Arboricultural survey at the above site. The following points are now outlined for your attention.

- 1 I have surveyed a total of 63 mature trees and 6 hedges on this site. The majority are Mature English Oak followed by Ash. Of these 59 are field boundary trees.
- 2 There is an awful lot of barbed wire damage to the stems of many of the trees, some of which have been completely girdled. There are differing approaches how such trees should be dealt with in this situation. I have erred on the side of retention in the majority of examples and I feel that the councils Arboricultural Officers will agree with this in the interest of preserving the tree-scape given how many on the site are decayed and will have to be removed to facilitate the development proposals.
- 3 G14 is an area of Willows outside of your site but immediately adjacent to it. They are next to a small pond area. The majority of these have collapsed structurally but account should be taken of their proximity due to the NHBC requirements for the foundations. They are all of mature status and would have been in the region of 8-12m high.

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- 4 G15 is a similar scenario. This is a line of mature Willow which runs parallel to H2 but on the other side of it away from your site. The first batch nearest to Lee Lane are about 2m beyond the hedge. The topo only shows a small part of this line as it actually runs just short of the end of H2. At some point in the line, the Willow trees converge with the hedge and become part of it. Many of the stems have collapsed and are damaged. In some areas the Willows have been pruned as part of the hedge. The main reason for the pruning at this part of the site is to keep the trees clear of the overhead power cable.
- 5 Your designers will need to pay particular attention to the extent of the Root Protection area to be provided all around the site. This will be quite extensive given the size of the trees.
- 6 Because of the point I raise as above, I have not specified a root protection area for the 6 hedge sections around the site. This is due to the fact that if you fence off the trees in accordance with BS5837, the hedges will be protected within that fencing. The fencing around the trees should ideally run continuous around the entire site. Given the number of trees to be protected I believe this would be the most cost-effective way of approaching it rather than try to protect individual trees or small groups.
- 7 Some of the hedges have been cut back periodically, presumably by the use of a tractor mounted flail cutter. In most examples this produces quite a severe finish if it is not used by a competent operator. If the development proceeds, you should bear in mind that to bring these hedges into a condition where they are suitable as an urban hedge, you would need to commence a schedule of planned maintenance early on in your site timetable. If this is left too late, it would be expensive having all of these attended to by small machinery i.e. hand-held hedge cutters having to work at the rear of new dwellings.
- 8 On the aspect of tree retention all development on site should comply with the requirements of **British Standard Institute Specification 5837 Trees in relation to Trees in Relation to Design, Demolition and Construction.**
- 9 Any new tree/shrub planting should comply with **British Standards 4043, Transplanting root-balled trees and British Standard Institute Specification 3936, Nursery Stock Part 1. Specification for Trees and Shrubs;**
- 10 All tree surgery work should be carried in accordance with **British Standard Institute Specification 3998, Tree Surgery work;**
- 11 The site should be checked for the existence of any **Tree Preservation orders, Conservation areas, Sites of Scientific Interest, Areas of Outstanding Natural Beauty, any deeds of covenant or/and other statutory instruments that may apply.**

Yours sincerely,

Always remember to use the professionals

M Cooper.

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Site: Lee Lane

Carried out on behalf of client: Bellway Homes.
Authorising Officer: Jason Campbell

TR NO	SPECIES	HGT m	STEM DIAM mm	BR SPREAD m	HGT OF CRN CLRN m	A G E	PHYS COND	STRUCTURAL CONDITION.	PRELIMINARY MANAGEMENT RECOMMENDATIONS	REM YRS	C A T	RPA
T1	Fraxinus excelsior, Common Ash.			N E S W			Poor	Main trunk divides to two at 2m. The major limb to the north west is badly decayed and this is adjacent to a busy highway.	Remove.	U	U	U
T2	Fraxinus excelsior, Common Ash.			N E S W			Poor	This tree is decayed at the basal area.	Remove.	U	U	U
T3	Quercus robur, English Oak.			N E S W			Poor	This tree is decayed at the basal area.	Remove	U	U	U
T4	Fraxinus excelsior, Common Ash.			N E S W			Poor	A large part of the canopy is dead-suppressed by T3 and the trunk is badly girdled by barbed wire.	Remove	U	U	U

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T5	Fraxinus excelsior, Common Ash.			N E S W			Poor	The base of this tree is badly decayed from ground level up to 0.7m. Extensive bark damage at 1-2m to the south west Adjacent to a busy highway.	Remove.	U	U	U
T6	Fraxinus excelsior, Common Ash.	9m	310mm	N 6.0m E 5.0m S 5.0m W 4.0m	GL	M	Fair	One trunk through the crown with two significant offshoot stems produced at ground level to the south. One of these is beginning to grow around the main trunk	Remove the stem that is wrapping around the trunk.	40	C	3.90m
T7	Quercus robur, English Oak.	11m	780mm	N 7.0m E 9.0m S 8.0m W 8.0m	2m	M	Fair	Main trunk divides to two at 3m plus a major limb to the north east is produced at 2m. Numerous branch ends have been damaged. Some old branch stubs. Extensive dead wood.	Remove major dead wood. Prune back branch stubs.	40	B	9.60m

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T8	Crataegus monogyna, Hawthorn.	7m		N 4.0m E 4.0m S 3.0m W 3.0m	GL	M	Fair	One trunk through the crown. One limb is growing towards the highway.	No work required.	20	C	3.60m
T9	Salix, Willow.			N E S W			Poor	This tree is supressing the adjacent Oak;	Remove	U	U	U
T10	Quercus robur, English Oak.	9m	420mm	N 7.0m E 6.0m S 5.0m W 4.0m	GL	M	Fair	Two stems arising at ground level. This tree is growing over the adjacent highway. Some dead wood.	Remove major dead wood.	40	C2	5.10m
T11	Salix sp, Willow.			N E S W		M	Poor	Poor tree. This tree is loose at the root plate.	Remove.	U	U	U

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T12	Salix sp, Willow			N E S W		M	Poor	Poor tree	Remove.	U	U	U
T13	Quercus robur, English Oak.	7m	400mm	N 6.0m E 4.0m S 6.0m W 5.0m	2m	M	Fair	Main trunk divides at 3m to produce a multi-stemmed crown which is sparse. Several branches have ben shortened over the first 3m of the crown. Some dead branches.	Remove dead branches. Prune back shortened branches	40	C	6.00m
G14	Salix sp, Willow.			N E S W		M	Poor	Group of Willows which have suffered major stem failures.	Remove	U	U	U
G15	Salix sp, Willow.			N E S W		M	Poor	This line of trees is not within the proposed development site but will have an influence on it. See covering letter.	See covering letter.	40	C	

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T16	Fraxinus excelsior, Common Ash.	9m	300mm 300mm 100mm 200mm	N 6.0m E 7.0m S 8.0m W 6.0m	GL	M	Fair	Multi-stemmed tree at ground level. Some dead wood and plus crossing and rubbing branches. The stem to the north is badly girdled.	Remove stem to the north that is girdled. Remove dead wood.	40	C	4.20m
T17	Fraxinus excelsior, Common Ash.	12m	350mm	N 6.0m E 5.0m S 5.0m W 5.0m	2.5m	M	Fair	T17 and T18 are growing as one tree. T17 is under the canopy of T18 and is suppressed. Some old branch stubs and shortened branches. Barbed wire in both main trunks	Prune back branch stubs. Prune back shortened branches	40	C	5.10m

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T18	Quercus robur, English Oak.	10m	420mm	N 6.0m E 5.0m S 5.0m W 5.0m	2.5m	M	Fair	T17 and T18 are growing as one tree. T17 is under4 the canopy of T18 and is suppressed. Some old branch stubs and shortened branches. Barbed wire in both main trunks	Prune back branch stubs. Prune back shortened branches	40	B	5.10
T19	Quercus robur, English Oak.	12m	500mm	N 5.0m E 7.0m S 7.0m W 7.0m	2.5m	M	Fair	One trunk through the crown. Some dead branches. Barbed wire in the main trunk. Several branches have been shortened.	Remove dead branches. Prune back shortened branches	40	B	6.00m

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T20	Fraxinus excelsior, Common Ash.	9m	240mm 200mm	N 2.0m E 4.0m S 4.5m W 5.0m	2m	M	Fair	Two stems arising at ground level. Limited crown to the north. Suppressed by T19.	No work required.	40	C	3.90
T21	Quercus robur, English Oak.	8m	560mm	N 6.0m E 5.0m S 5.0m W 4.5m	2.5m	M	Fair	Main trunk divides at 4m to produce a multi-stemmed crown. Some shortened branches and dead wood. Old pruning wounds and several old decayed branch stubs.	Prune back branch stubs. Prune back shortened branches	40	B	6.90m
T22	Quercus robur, English Oak.	9m	500mm	N 5.0m E 8.0m S 5.0m W 5.0m	2.5m	M	Fair	Main trunk divides at 4m to produce a multi-stemmed crown. Some shortened branches and dead wood.	Prune back shortened branches.	40	B	6.00m

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T23	Quercus robur, English Oak.	12m	600mm	N 7.0m E 7.0m S 9.0m W 8.0m	4m	M	Fair	Main trunk divides at 4m to produce a multi-stemmed crown. Some dead wood. Good crown	Remove dead wood.	40	B	7.20m
T24	Quercus robur, English Oak.		400mm	N E S W		M	Poor	This tree is growing on the boundary. Extensive damage and decay to the south east in the crown and the basal area.	Remove.	U	U	U
T25	Quercus robur, English Oak.	9m	600mm	N 9.0m E 7.0m S 7.0m W 7.0m	2m	M	Fair	Main trunk divides to two at 3m. This tree is growing on the boundary. The stems are trying to graft at 3m due to the pressure caused by them growing tight together. Some crossing and rubbing limbs.	Remove crossing branches.	40	B	7.20m

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T26	Fraxinus excelsior, Common Ash.	9m	150mm 200mm 150mm 150mm 320mm	N 3.0m E 5.0m S 5.0m W 4.0m	GL	M	Fair	Five stems arising at ground level. Field boundary tree. Minor dead wood.	No work required.	40	C	5.70m
T27	Quercus robur, English Oak.	9m	470mm	N 7.0m E 6.0m S 3.0m W 5.0m	2.5m	M	Fair	One trunk through the crown. Some dead wood and the main trunk is badly girdled. Good crown.	Remove dead wood.	40	B	5.70m
T28	Quercus robur, English Oak.	10m	590mm	N 8.0m E 7.0m S 4.0m W 7.0m	3m	M	Fair	Main trunk divides to two at 2.5m Field boundary tree. Some dead branches and some old dead branch stubs.	Prune back branch stubs and remove dead wood.	40	B	7.20m

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T29	Quercus robur, English Oak.	9m	450mm	N 6.0m E 6.0m S 6.0m W 5.0m	1m	M	Fair	Main trunk divides at 4m to produce a multi-stemmed crown. Damaged lower branch at 2.5m Some dead wood. Good crown.	Remove dead wood.	40	B	5.40m
T30	Quercus robur, English Oak.	10m	250mm	N 3.0m E 3.0m S 2.0m W 4.0m	4m	M	Poor	Main trunk divides at to two at 5m. Suppressed by T31. A branch from the adjacent hedgerow Hawthorn is rubbing on the main trunk.	Remove the branch for the Hawthorn which is rubbing onto the stem.	40	C	3.00m
T31	Quercus robur, English Oak.	9m	300mm 320mm	N 5.0m E 6.0m S 3.5m W 5.0m	3m	M	Fair	Main trunk divides to two at 1m. Some dead branches.	Remove dead branches.	40	C	5.40m

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T32	Quercus robur, English Oak.	10m	510mm	N 15m E 8m S W 7m	2m	M	Fair	Main trunk divides at 5m to produce a multi-stemmed crown. Several shortened branches and dead branch stubs. Minor dead branches. Good crown.	Prune back shortened branches and branch stubs.	40	B	6.30m
T33	Quercus robur, English Oak.	10	430mm	N E 8.0m S W 7.0m	2m	M	Fair	Main trunk divides at 4-5m to produce a multi-stemmed crown. Minor dead wood. Good crown.	No work required.	40	B	6.30m

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T34	Quercus robur, English Oak.	11m	390mm 500mm 550mm	N 7.0m E 8.0m S 7.0m W 7.0m	2m	M	Fair	Main trunk divides to three at 0.5m./ Two of the stems are badly compressed. Some decay on the stem to the east at 4m where it grows out at a right angle. Some old dead branch stubs .and small branches Barbed wire in the main trunk. Damaged major limb to the north west at 6m plus another smaller limb is crossing and rubbing on it.	Prune back branch stubs and remove dead branches. Remove the damaged limb and the one that is rubbing on it.	20	C	10.20m
T35	Quercus robur, English Oak.			N E S W		M	Poor	Decayed on the main trunk	Remove.	U	U	U

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T36	Quercus robur, English Oak.			N E S W		M	Poor	The trunk of this tree kinks to a right angle at 2m and is decayed to the north east.	Remove.	U	U	U
T37	Fraxinus excelsior, Common Ash.			N E S W		M	Poor	The main trunk of this tree is rubbing on to part of T36 and the stem at that point has become swollen i.e. bulbous.	Remove.	U	U	U
T38	Quercus robur, English Oak.	9m	520mm	N 5.0m E 6.0m S 5.0m W 4.0m	1m	M	Fair	Main trunk divides to three at 2.5m Minor dead wood. Good crown.	No work required.	40	B	6.30m
T39	Quercus robur, English Oak.	8m	490mm 460mm	N 7.0m E 7.0m S 7.0m W 7.0m	GL	M	Fair	Two stems arising at ground level. Some dead wood and old decayed branch stubs. Bad barbed wire inclusion on the main trunk	Remove dead wood and prune back old branch stubs.	40	B	8.10m

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T40	Acer campestre, Field Maple.	8m	400mm 320mm 150mm 200mm	N 5.0m E 5.0m S 5.0m W 3.0m	GL	M	Fair	Multi-stemmed tree at ground level. Good crown.	No work required.	40	B	7.20m
T41	Quercus robur, English Oak.			N E S W		M	Poor	This tree has been struck by lightning	Remove.	U	U	U
T42	Fraxinus excelsior, Common Ash.	8m	300mm	N 6.0m E 6.0m S 0.0m W 0.0m	4m	M	Poor	Poor tree suppressed by T43		40	C	3.60m
T43	Quercus robur, English Oak.			N E S W		M	Poor	This tree has been struck by lightning	Remove.	U	U	U

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T44	Quercus robur, English Oak	5m	210mm	N 3.0m E 2.0m S 3.0m W 2.0m	1m	S M	Poor	Main trunk divides to two at 3m. Small ripped branch hanging down from the crown.	Remove damaged and hanging branch.	20	C	2.70m
T45	Crataegus monogyna, Hawthorn.	5m	190mm 140mm	N 2.0m E 2.0m S 4.0m W 3.0m	GL	M	Poor	Two stems arising at ground level. Growing under the canopy of T46	No work required.	20	C	3.00m
T46	Quercus robur, English Oak.	10m	600mm	N 3.0m E 4.0m S 8.0m W 7.0m	2m	M	Fair	Main trunk kinks at 0.7m to the south and divides to two at 4m. Minor dead wood.	Remove dead wood.	40	C	7.20m
T47	Fraxinus excelsior, Common Ash.			N E S W		M	Poor	This tree is badly infected with Inonotus-Ash Heart Rot.	Remove.	U	U	U

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T48	Quercus robur, English Oak.			N E S W		M	Poor	Poor tree	Remove.	U	U	U
T49	Quercus robur, English Oak.			N E S W		M	Poor	Significant damage to the main trunk.	Remove.	U	U	U
T50	Quercus robur, English Oak.	6m	400mm	N 4.0m E 5.0m S 4.0m W 5.0m	2m	M	Fair	Main trunk divides to three at 2m. Some decay at the basal area to the south	No work required.	40	B	4.80m
T51	Quercus robur, English Oak.	12m	840mm	N 8.0m E 8.0m S 8.0m W 6.0m	2m	M	Fair	One trunk through the crown. Some dead wood/small branches and old branch stubs.	Remove dead wood/small branches and prune back branch stubs.	20	B	10.20m
T52	Quercus robur, English Oak.	6m	450mm	N 4.0m E 3.0m S 4.0m W 3.0m	1.2m	M	Poor	Main trunk divides at 1.2m to produce a multi-stemmed crown. One of the stems has broken out. Another stem is badly damaged on the bark.	Prune out the limb that has broken out. and carry out remedial pruning to the damaged one.	10	C	5.40m

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T53	Quercus robur, English Oak.	8m	470mm	N 4.0m E 5.0m S 6.0m W 5.0m	1m	M	Fair	Main trunk divides to two at 3m. plus there is a shoot to the north at ground level which has now attained the form of a small tree.	Remove the basal 'small tree'	20	C	6.00m
T54	Quercus robur, English Oak.	10m	590mm	N 8.0m E 8.0m S 7.0m W 8.0m	2m	M	Fair	Main trunk divides at 3m to produce a multi-stemmed crown. Damaged limb to the south at 3m. Hung up minor dead wood. Minor dead small branches.	Remove dead branches. Remove hung up dead wood. Remove damaged limb.	20	C	7.20m
T55	Quercus robur, English Oak.	11m	610mm	N 5.0m E 7.0m S 7.0m W 7.0m	2m	M	Fair	Main trunk divides at 4m to produce a multi-stemmed crown. Some basal decay. Minor dead wood. Good crown.	Remove dead wood.	20	B	7.50m

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TR NO	SPECIES	HGT m	STEM DIAM mm	BR SPREAD m	HGT OF CRN CLRN m	AGE	PHYS COND	STRUCTURAL CONDITION.	PRELIMINARY MANAGEMENT RECOMMENDATIONS	REM YRS	CAT	RPA
T56	Fraxinus excelsior, Common Ash.			N E S W		M	Poor	Decayed at the base and extensive die-back.	Remove.	U	U	U
T57	Fraxinus excelsior, Common Ash.			N E S W		M	Poor	Infected with Inonotus-Ash Heart fungus.	Remove.	U	U	U
T58	Fraxinus excelsior, Common Ash.	11m	490mm	N 5.0m E 6.0m S 3.0m W 8.0m	4m	M	Poor	Two stems arising at 0.5m. The stem to the north is decayed.	Remove the stem to the north.	20	C	6.00m
T59	Quercus robur, English Oak.			N E S W		M	Poor	This tree is badly girdled on the main trunk plus the base is decayed	Remove.	U	U	U
T60	Quercus robur, English Oak.			N E S W		M	Poor	The base of the main trunk rotten plus there are bracket fungus present.	Remove.	U	U	U

Survey carried out in January 2019 by;
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Site: Lee Lane

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TR NO	SPECIES	HGT m	STEM DIAM mm	BR SPREAD m	HGT OF CRN CLRNM	A G E	PHYS COND	STRUCTURAL CONDITION.	PRELIMINARY MANAGEMENT RECOMMENDATIONS	REM YRS	C A T	RPA
T61	Quercus robur, English Oak.			N E S W		M	Poor	The base of this tree is decayed	Remove.	U	U	U
T62	Quercus robur, English Oak.			N E S W		M	Poor	The base of this tree is decayed	Remove.	U	U	U
T63	Fraxinus excelsior, Common Ash.			N E S W		M	Poor	This tree has been slightly uprooted at some time i.e. it is windblown. The uplift at the root plate is visible.	Remove	U	U	U

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TR NO	SPECIES	HGT m	STEM DIAM mm	BR SPREAD m	HGT OF CRN CLRNM m	A G E	PHYS COND	STRUCTURAL CONDITION.	PRELIMINARY MANAGEMENT RECOMMENDATIONS	REM YRS	C A T	RPA
H1	Crataegus monogyna, Hawthorn. Betula pendula, Silver Birch.	6-8m			GL	M	Fair	The majority of this hedge is Hawthorn ranging from those cut as a hedgerow and those which have grown freely. There are several Silver Birch which have attained tree status but there are also numerous smaller ones which have been reduced severely and the majority of these are extensively decayed.	See covering letter re hedge maintenance.	40	C2	See covering letter re hedge maint.
H2	Acer pseudoplatanus, Sycamore. Crataegus monogyna, Hawthorn.	4-9m			GL	M	Fair	The majority of this hedge has been maintained by flail cutting and has been kept at an average height of 3-6m with some of the trees being up to 9m.	See covering letter re hedge maintenance.	40	C2	See covering letter re hedge maint

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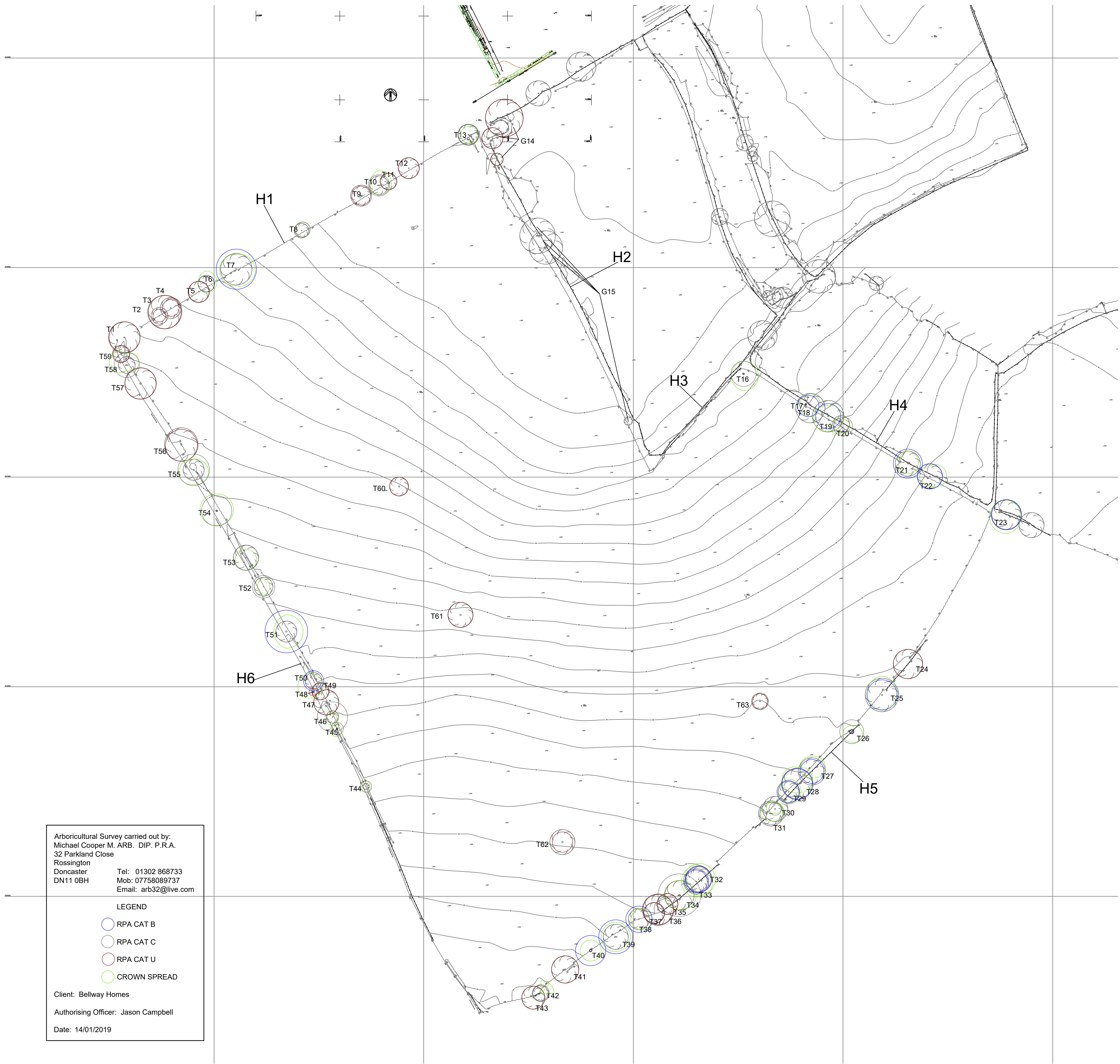
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TR NO	SPECIES	HGT m	STEM DIAM mm	BR SPREAD m	HGT OF CRN CLRN m	A G E	PHYS COND	STRUCTURAL CONDITION.	PRELIMINARY MANAGEMENT RECOMMENDATIONS	REM YRS	C A T	RPA
H3	Crataegus monogyna, Hawthorn	2-6m			GL	M	Fair	Short section of Hawthorn but with a large gap that has been colonised by Bramble.	See covering letter re hedge maintenance.	40	C2	See covering letter re hedge maint
H4	Crataegus monogyna, Hawthorn. Ilex aquifolium, Holly. Sambucus nigra, Elderberry.	2-4m			GL	M	Fair	The majority of this hedge has been maintained by flail cutting and has been kept at an average height of 3-6m with some of the trees being up to 9m.	See covering letter re hedge maintenance.	40	C2	See covering letter re hedge maint
H5	Crataegus monogyna, Hawthorn Acer campestre, Field Maple	2-10m			GL	M	Fair	This hedge has intermittent sections of small trees which are forming an effective line.	See covering letter re hedge maintenance.	40	C2	See covering letter re hedge maint

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Authorising Officer: Jason Campbell
Date: 14/01/2019

LEGEND
RPA CAT B
RPA CAT C
RPA CAT U
CROWN SPREAD

Development
Lee lane, Royston

Drawing Title
Tree Survey 2018 update

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Scale: 1:1000 @ A1	Drawn: ZE	Date: April 18
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Drawing No. LL- TS18	Rev -	